

09MK-HS

Technical Manual / Manuale tecnico

Ducted Fan Coil Units
Ventilconvettori canalizzati



09MK HS Ducted Fan Coil Unit

General Description

MEKAR 09MK HS series fan coil units are characterized for high performances, modern design and robust construction. Entire materials and components passes high internal quality checks during manufacturing process. These units are precisely engineered toward achieving economical operation and easy installation. Units are designed for high static, low noise, long life trouble free operation and allows easy maintenance.



Flexibility

- ◆ A wide choice of airflow and coil surfaces permit range of cooling capacity selection.
- ◆ The units are convertible to double skin and exposed type units.
- ◆ EC motors available as option.
- ◆ Options available for standard and district cooling applications.
- ◆ Easy to use computerized selection software.

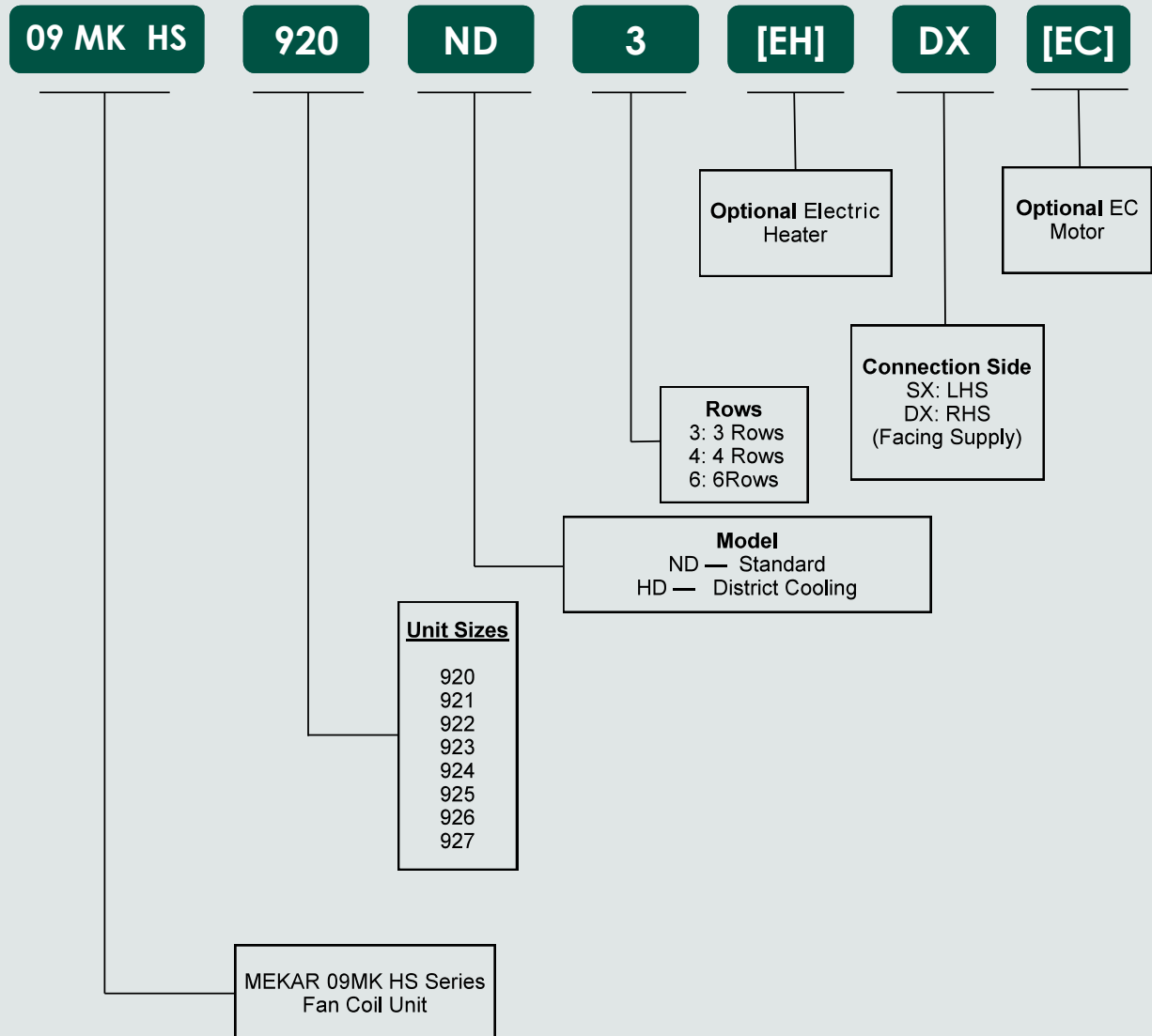
Applications :

- ◆ Residences
- ◆ Offices
- ◆ Shopping Malls
- ◆ Palaces
- ◆ Mosques
- ◆ Schools
- ◆ Hospitals
- ◆ High rise building
- ◆ Hotel, Restaurants and etc

09MK HS

Ducted Fan Coil Unit

Nomenclature



Cooling-heating	Indoor Inst.	Horizontal inst.	Refrig. Water	Group Control

09MK HS

Ducted Fan Coil Unit

Product Specification

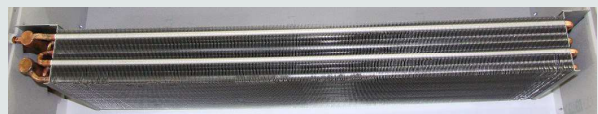
Casing



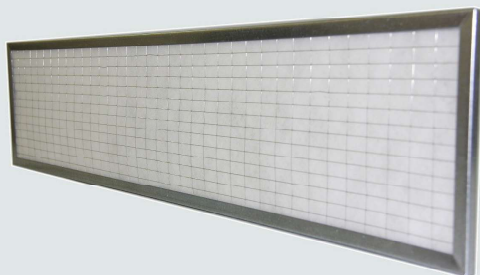
Robust encapsulated construction, casing made of high quality galvanized steel sheet. The internal casing is completely insulated with 10mm Class –1 thermal and acoustic insulation. Double skin casing available as option with injected polyurethane or mineral wool insulation.

Heat Exchangers

Coils are made of seamless plain copper tubes, mechanically expanded into corrugated aluminum fins. Tubes are made of high quality copper and circuited in counter current flow arrangement. The coil headers are made of copper and brazed to BSP male threaded brass adapter for quick connection. The header and “U” bends are enclosed inside the casing. Each coil is fitted with a manual air vent and drain plug. Coils are pressure tested for 25 bar immersed in water. Available with 3,4 & 6 Rows option .



Air Filters



Units are equipped with 22mm G3 grade efficiency synthetic washable filter as standard. The Filter frame is made of galvanized steel and filter media is enclosed by galvanized steel mesh on both sides. The filters are easy withdrawal from back and bottom. Other filter

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Product Specification

Fans



Mekar 09MK HS units are fitted with high efficiency, low noise forward curved direct driven centrifugal DIDW Fans. Impellers and scroll are made of high grade galvanized steel. Fans are statically and dynamically balanced. Fan assembly is easily removable for maintenance..

Motors

Highly efficient, 3-speed, Permanent Split-Capacitor motors are standard. All the motor are suitable for operating at 220/240 V, Single phase, 50 / 60 Hz and motors are equipped with inbuilt automatic reset thermal-overload protection. Motor terminal wires are enclosed inside conduit to provide protection against damage and terminated to terminal box externally. Motors are fitted with permanently lubricated bearings. Motors are isolated with the rubber rings mount to avoid vibration.

EC Motor



PSC Motor



BLDC Electronically Commutated (EC) Motors with permanent magnet. Mekar EC motor are super energy efficient with extended motor life. Variable speed control through 0-10 V DC. All motor are suitable for operating at single phase 220/240 Volts AC 50/60Hz.

Drain Pan

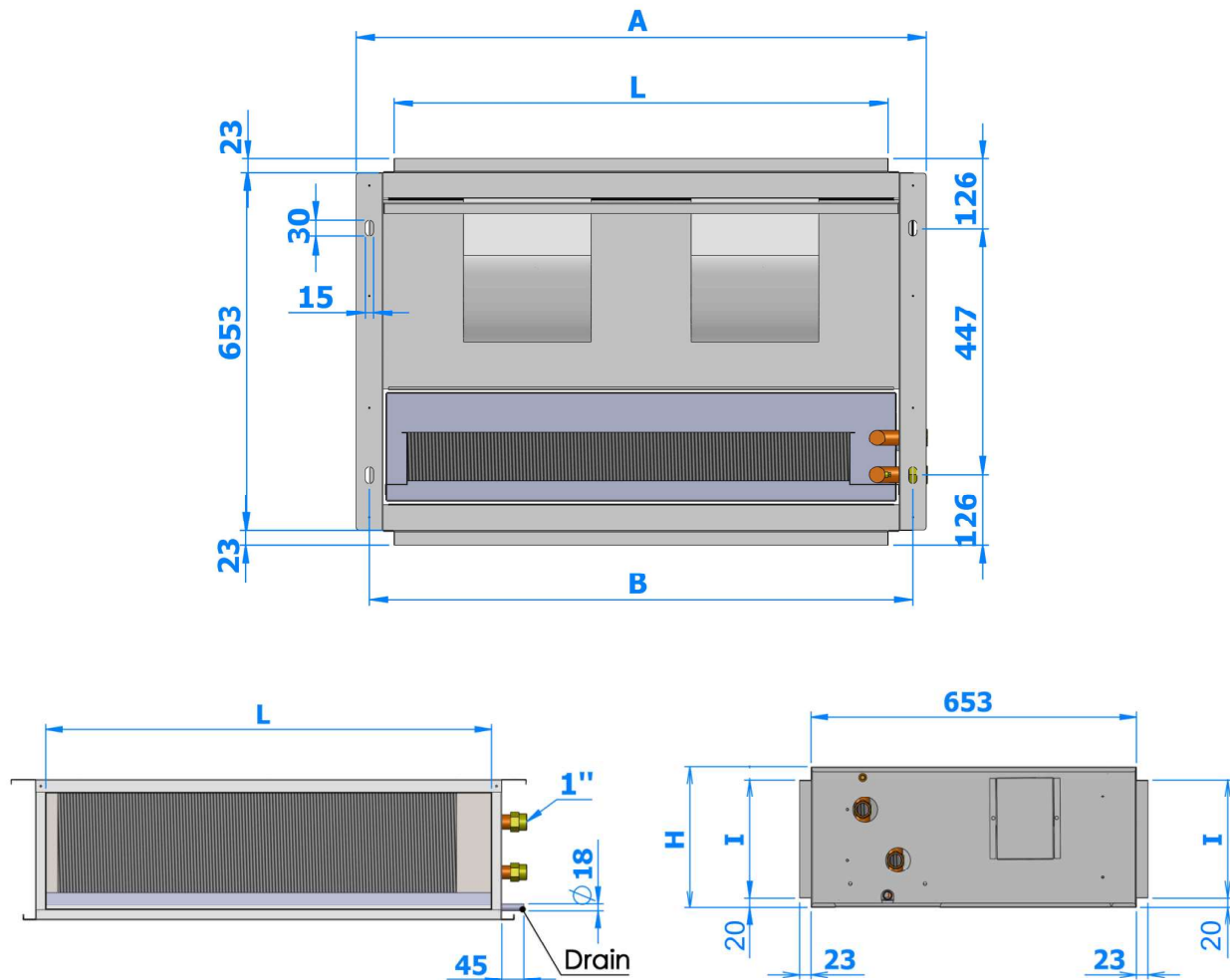


Internally slopped drain pan with hygienic arrangement. The drain pan is made of hot dip galvanized steel with anti corrosion protection coating on top and externally insulated with 6mm thick insulation. Easy removal drain pan for maintenance. Optional stainless steel drain pan available on request.

09MK HS

Ducted Fan Coil Unit

Unit Dimensions



Model	L	A	B	H	I
09MK HS 920	744	884	834	283	235
09MK HS 921	894	1034	984	283	235
09MK HS 922	1054	1194	1144	283	235
09MK HS 923	1054	1194	1144	350	297
09MK HS 924	1214	1354	1304	350	297
09MK HS 925	1214	1354	1304	385	345
09MK HS 926	1374	1514	1464	385	345
09MK HS 927	1534	1674	1624	385	345

*All dimension in mm

09MK HS

Ducted Fan Coil Unit

Technical Data

Model 09MK HS		921	921	922	923
Air Flow (Nominal)	m³/hr	1310	1415	1872	2163
Total Capacity	kW	5.88	6.89	8.84	10.69
Water Flow Rate	L/s	0.28	0.33	0.42	0.51
Water Pressure Drop	kPa	9.9	16.70	18.82	31.25
Coil Parameters					
Fins		Corrugated Plain Aluminum			
Tube		3/8 inch Plain Seamless Copper Tube			
Face Area	Sq.m	0.16	0.2	0.24	0.288
Connection Size		1" Male BSP			
Fan					
Type		Centrifugal Forward Curved– Direct driven			
No. of Fans	Nos	2	2	2	2
Motor					
Type	3 Speed PSC Motor				
No. of Motor	Nos	1	1	1	1
Motor Output Power	Watts	80	110	150	150
FCU Max Input Power	Watts	210	271	310	404

Model 09MK HS		924	925	926	927
Air Flow (Nominal)	m³/hr	2874	3334	3552	4024
Total Capacity	kW	13.32	15.26	17.06	19.06
Water Flow Rate	L/s	0.64	0.73	0.81	0.91
Water Pressure Drop	kPa	24.57	20.15	27.67	23.37
Coil Parameters					
Fins		Corrugated Plain Aluminum			
Tube		3/8 inch Plain Seamless Copper Tube			
Face Area	Sq.m	0.336	0.392	0.448	0.504
Connection Size		1" Male BSP			
Fan					
Type		Centrifugal Forward Curved– Direct driven			
No. of Fans	Nos	2	2	2	2
Motor					
Type	3 Speed PSC Motor				
No. of Motor	Nos	1	1	1	1
Motor Output Power	Watts	200	350	400	500
FCU Max Input Power	Watts	475	625	690	795

Performance based on following Condition:

Fan Speed : High
ESP: 0 Pa
220V/1Ph/50Hz

Coil Rows : 4
Entering Air : 24C DB/18°C WB
Chilled Water : 7°C IN / 12°C OUT

09MK HS

Ducted Fan Coil Unit

Performance Data

3 Row Standard ND

Model	Speed	ESP	Air Flow	In Put Power	Cooling Capacity		Air Off Temp	Water Flow	Water Pres- sure Drop
					Total	Sensible			
		Pa	m³/h	Watts	kW	kW	DB/WB °C	l/h	kPa
09MK HS 9210	High	0	1374.35	205	5.07	3.75	15.8/14.07	0.24	10.5
		25	1210.78	196	4.67	3.44	15.47/13.87	0.22	9.14
		50	1054.86	182	4.27	3.13	15.09/13.66	0.2	7.84
		75	923.32	173	3.9	2.85	14.73/13.45	0.19	6.73
	Medium	0	1239.92	183	4.74	3.50	15.53/13.91	0.23	9.38
		25	1110.33	175	4.41	3.24	15.23/13.74	0.21	8.30
		50	986.62	169	4.08	2.99	14.91/13.55	0.19	7.26
		75	890.94	163	3.80	2.78	14.64/13.39	0.18	6.45
	Low	0	921.97	159	3.89	2.85	14.73/13.44	0.19	6.71
		25	794.90	151	3.51	2.56	14.35/13.21	0.17	5.64
		50	690.01	143	3.17	2.30	13.99/13.00	0.15	4.75
		75	554.93	133	2.70	1.94	13.48/12.68	0.13	3.62
09MK HS 921	High	0	1492.73	274	6.02	4.35	15.25/13.67	0.29	18.21
		25	1442.86	264	5.89	4.25	15.15/13.61	0.28	17.53
		50	1395.40	255	5.76	4.16	15.06/13.55	0.28	16.89
		75	1284.07	238	5.46	3.92	14.83/13.42	0.26	15.38
		100	1171.77	222	5.13	3.68	14.57/13.26	0.25	13.85
	Medium	0	1461.24	268	5.94	4.29	15.19/13.63	0.28	17.78
		25	1398.81	260	5.77	4.16	15.07/13.56	0.28	16.93
		50	1338.04	252	5.61	4.04	14.94/13.48	0.27	16.11
		75	1234.45	232	5.32	3.82	14.72/13.35	0.25	14.70
		100	1131.65	217	5.01	3.59	14.47/13.20	0.24	13.30
	Low	0	825.99	138	4.02	2.85	13.63/12.68	0.19	9.15
		25	761.15	132	3.79	2.68	13.42/12.54	0.18	8.27
		50	697.69	128	3.55	2.51	13.20/12.40	0.17	7.42
		75	599.28	121	3.17	2.23	12.84/12.16	0.15	6.12
		100	502.31	116	2.76	1.93	12.45/11.90	0.13	4.86
09MK HS 922	High	0	1980.99	316	7.64	5.56	15.58/13.88	0.36	17.97
		25	1866.49	310	7.35	5.34	15.41/13.78	0.35	16.84
		50	1753.09	303	7.06	5.12	15.24/13.67	0.34	15.71
		75	1612.64	281	6.69	4.83	15.00/13.54	0.32	14.31
		100	1474.32	265	6.30	4.54	14.75/13.39	0.30	12.93
	Medium	0	1920.45	308	7.49	5.44	15.49/13.82	0.36	17.37
		25	1783.68	292	7.14	5.18	15.28/13.70	0.34	16.02
		50	1647.33	282	6.78	4.91	15.06/13.57	0.32	14.66
		75	1501.58	263	6.38	4.60	14.80/13.42	0.30	13.20
		100	1357.64	247	5.96	4.29	14.52/13.25	0.28	11.76
	Low	0	1238.98	245	5.60	4.01	14.28/13.10	0.27	10.57
		25	1132.64	234	5.26	3.76	14.04/12.95	0.25	9.51
		50	1028.07	221	4.91	3.50	13.78/12.79	0.23	8.46
		75	873.56	210	4.36	3.09	13.37/12.53	0.21	6.93
		100	714.92	192	3.75	2.64	12.90/12.22	0.18	5.38
09MK HS 923	High	0	2285.50	396	8.94	6.49	15.47/13.81	0.43	17.31
		25	2184.51	386	8.68	6.30	15.34/13.74	0.41	16.47
		50	2083.98	378	8.42	6.10	15.21/13.66	0.40	15.64
		75	1969.94	373	8.12	5.87	15.05/13.57	0.39	14.69
		100	1853.92	367	7.80	5.63	14.88/13.47	0.37	13.72
	Medium	0	2236.50	323	8.82	6.40	15.41/13.78	0.42	16.91
		25	2109.68	321	8.49	6.15	15.24/13.68	0.41	15.85
		50	1942.65	315	8.04	5.82	15.01/13.54	0.38	14.46
		75	1890.11	309	7.90	5.71	14.94/13.50	0.38	14.02
		100	1764.68	300	7.55	5.44	14.74/13.38	0.36	12.98
	Low	0	1335.44	232	6.23	4.45	13.99/12.92	0.30	9.38
		25	1238.14	229	5.90	4.21	13.79/12.80	0.28	8.56
		50	1116.11	225	5.48	3.89	13.53/12.63	0.26	7.55
		75	971.80	215	4.94	3.50	13.19/12.41	0.24	6.35
		100	824.48	212	4.36	3.07	12.81/12.16	0.21	5.15

Air on Condition : 24°C DB / 18°C WB

Water Condition : 7°C Inlet / 12°C Outlet

09MK HS

Ducted Fan Coil Unit

Performance Data

3 Row Standard ND

Model	Speed	ESP	Air Flow	In Put Power	Cooling Capacity		Air Off Temp	Water Flow	Water Pressure Drop
		Pa	m³/h	Watts	Total	Sensible	DB/WB		
					kW	kW	°C	l/h	kPa
09MK HS 924	High	0	3018.36	482	11.67	8.39	15.66/13.86	0.56	32.19
		25	2897.97	473	11.37	8.17	15.54/13.80	0.54	30.80
		50	2745.38	460	10.99	7.88	15.38/13.70	0.52	29.04
		75	2600.75	443	10.62	7.60	15.23/13.61	0.51	27.05
		100	2453.07	426	10.22	7.30	15.06/13.51	0.49	25.36
	Medium	0	2764.18	379	11.04	7.91	15.40/13.72	0.53	29.26
		25	2664.59	365	10.78	7.72	15.30/13.65	0.51	28.10
		50	2539.21	361	10.45	7.48	15.16/13.57	0.50	26.35
		75	2400.80	344	10.08	7.20	15.00/13.48	0.48	24.76
		100	2258.01	324	9.68	6.90	14.82/13.37	0.46	23.11
	Low	0	1490.79	274	7.29	5.13	13.66/12.65	0.35	14.24
		25	1391.43	268	6.94	4.88	13.48/12.53	0.33	13.10
		50	1266.06	255	6.48	4.54	13.23/12.37	0.31	11.67
		75	1136.77	245	5.99	4.18	12.96/12.19	0.29	10.21
		100	1007.42	227	5.47	3.80	12.66/11.99	0.26	8.76
09MK HS 925	High	0	3501.62	656	13.18	9.59	15.78/13.98	0.63	21.25
		25	3369.57	643	12.87	9.35	15.67/13.92	0.61	20.40
		50	3202.63	630	12.46	9.04	15.53/13.84	0.60	19.31
		75	3036.81	617	12.04	8.72	15.37/13.75	0.58	18.23
		100	2869.30	608	11.61	8.40	15.21/13.65	0.55	17.13
	Medium	0	3375.44	597	12.88	9.36	15.67/13.92	0.62	20.44
		25	3249.17	573	12.57	9.13	15.57/13.86	0.60	19.62
		50	3090.02	552	12.18	8.83	15.42/13.78	0.58	18.58
		75	2919.34	540	11.74	8.50	15.26/13.68	0.56	17.46
		100	2744.54	514	11.28	8.15	15.09/13.58	0.54	16.31
	Low	0	1953.84	340	8.97	6.41	14.15/13.01	0.43	11.07
		25	1854.78	327	8.65	6.17	14.01/12.93	0.41	10.42
		50	1729.22	311	8.23	5.86	13.83/12.81	0.39	9.59
		75	1609.89	300	7.82	5.55	13.64/12.69	0.37	8.80
		100	1487.44	290	7.38	5.23	13.44/12.57	0.35	7.99
09MK HS 926	High	0	3730.08	724	14.83	10.63	15.44/13.74	0.71	30.30
		25	3608.22	719	14.52	10.40	15.35/13.68	0.69	29.22
		50	3454.94	696	14.12	10.10	15.22/13.61	0.67	27.22
		75	3283.94	675	13.66	9.76	15.07/13.52	0.65	25.74
		100	3109.58	643	13.19	9.41	14.92/13.43	0.63	24.23
	Medium	0	3546.34	586	14.36	10.28	15.30/13.65	0.69	28.67
		25	3420.74	572	14.03	10.04	15.19/13.59	0.67	26.93
		50	3261.31	553	13.60	9.72	15.05/13.51	0.65	25.55
		75	3114.68	539	13.20	9.42	14.92/13.43	0.63	24.27
		100	2963.66	515	12.78	9.10	14.78/13.34	0.61	22.96
	Low	0	1978.95	350	9.69	6.82	13.65/12.65	0.46	14.36
		25	1875.98	340	9.33	6.55	13.51/12.55	0.45	13.47
		50	1745.70	327	8.85	6.21	13.32/12.43	0.42	12.34
		75	1619.01	313	8.38	5.86	13.13/12.30	0.40	11.25
		100	1492.11	304	7.89	5.51	12.92/12.17	0.38	10.17
09MK HS 927	High	0	4225.60	835	16.39	11.87	15.57/13.85	0.78	21.94
		25	4104.98	819	16.09	11.64	15.49/13.80	0.77	21.27
		50	3952.54	811	15.71	11.35	15.38/13.74	0.75	20.42
		75	3800.41	798	15.32	11.06	15.27/13.67	0.73	19.57
		100	3647.53	792	14.91	10.75	15.15/13.60	0.71	18.71
	Medium	0	4047.36	808	15.95	11.53	15.45/13.78	0.76	20.95
		25	3928.91	802	15.65	11.31	15.36/13.73	0.75	20.29
		50	3779.35	727	15.26	11.01	15.25/13.66	0.73	19.45
		75	3625.00	709	14.85	10.71	15.13/13.59	0.71	18.58
		100	3467.34	688	14.43	10.39	15.01/13.52	0.69	17.69
	Low	0	2190.27	680	10.54	7.48	13.75/12.75	0.50	10.45
		25	2098.57	656	10.22	7.24	13.64/12.68	0.49	9.93
		50	1982.74	640	9.81	6.94	13.49/12.58	0.47	9.27
		75	1863.14	619	9.37	6.62	13.33/12.48	0.45	8.60
		100	1739.19	604	8.91	6.28	13.16/12.37	0.43	7.90

Air on Condition : 24°C DB / 18°C WB

Water Condition : 7°C Inlet / 12°C Outlet

09MK HS

Ducted Fan Coil Unit

Performance Data

4 Row Standard ND

Model	Speed	ESP	Air Flow	In Put Power	Cooling Capacity		Air Off Temp	Water Flow	Water Pressure Drop
					Total	Sensible	DB/WB		
		Pa	m³/h	Watts	kW	kW	°C	L/s	kPa
09MK HS 920	High	0	1310.15	200	5.88	4.25	14.27/13.13	0.28	9.90
		25	1178.73	190	5.46	3.93	13.99/12.96	0.26	8.74
		50	1058.77	181	5.06	3.63	13.71/12.78	0.24	7.68
		75	934.03	162	4.62	3.30	13.39/12.58	0.22	6.59
	Medium	0	1181.06	181	5.47	3.94	13.99/12.96	0.26	8.76
		25	1057.21	173	5.06	3.63	13.70/12.78	0.24	7.67
		50	947.36	164	4.67	3.34	13.42/12.60	0.22	6.71
		75	816.52	154	4.19	2.97	13.06/12.36	0.20	5.57
	Low	0	870.16	155	4.39	3.13	13.21/12.46	0.21	6.04
		25	751.24	146	3.93	2.79	12.87/12.24	0.19	5.01
		50	649.72	137	3.51	2.48	12.55/12.03	0.17	4.15
		75	463.53	123	2.66	1.86	11.94/11.61	0.13	2.61
09MK HS 921	High	0	1415.52	260	6.89	4.87	13.68/12.68	0.33	16.70
		25	1375.86	252	6.75	4.77	13.60/12.63	0.32	16.14
		50	1328.32	243	6.58	4.64	13.51/12.57	0.31	15.47
		75	1223.09	227	6.21	4.36	13.29/12.43	0.30	13.99
		100	1116.03	211	5.81	4.07	13.05/12.27	0.28	12.50
	Medium	0	1383.86	254	6.78	4.79	13.62/12.64	0.32	16.26
		25	1334.38	248	6.60	4.66	13.52/12.58	0.32	15.56
		50	1273.53	240	6.39	4.50	13.39/12.50	0.31	14.70
		75	1175.97	221	6.03	4.24	13.18/12.36	0.29	13.33
		100	1078.35	207	5.66	3.97	12.96/12.21	0.27	11.98
	Low	0	778.53	130	4.42	3.07	12.18/11.68	0.21	7.89
		25	727.18	126	4.19	2.90	12.03/11.57	0.20	7.21
		50	663.61	122	3.90	2.69	11.84/11.43	0.19	6.38
		75	570.82	115	3.45	2.37	11.54/11.22	0.16	5.20
		100	477.72	110	2.97	2.03	11.24/10.99	0.14	4.05
09MK HS 922	High	0	1872.19	299	8.84	6.27	13.95/12.85	0.42	18.82
		25	1781.66	296	8.54	6.05	13.81/12.77	0.41	17.75
		50	1668.05	288	8.16	5.76	13.63/12.65	0.39	16.41
		75	1535.56	268	7.70	5.42	13.40/12.51	0.37	14.85
		100	1400.50	252	7.20	5.06	13.16/12.35	0.34	13.26
	Medium	0	1811.63	291	8.64	6.12	13.85/12.80	0.41	18.10
		25	1703.60	279	8.28	5.85	13.68/12.69	0.40	16.82
		50	1567.00	268	7.81	5.50	13.46/12.54	0.37	15.22
		75	1429.54	250	7.31	5.14	13.21/12.38	0.35	13.60
		100	1287.62	234	6.77	4.74	12.94/12.20	0.32	11.95
	Low	0	1166.63	231	6.29	4.39	12.70/12.03	0.30	10.56
		25	1082.44	224	5.95	4.14	12.52/11.91	0.28	9.59
		50	977.81	210	5.50	3.82	12.28/11.75	0.26	8.41
		75	833.20	200	4.85	3.35	11.93/11.50	0.23	6.81
		100	685.94	184	4.15	2.85	11.54/11.22	0.20	5.24
09MK HS 923	High	0	2163.86	375	10.69	7.47	13.64/12.59	0.51	31.25
		25	2084.07	368	10.41	7.27	13.53/12.52	0.50	29.87
		50	1983.38	360	10.06	7.01	13.39/12.43	0.48	28.15
		75	1876.09	355	9.67	6.73	13.24/12.33	0.46	26.31
		100	1763.62	349	9.25	6.42	13.07/12.22	0.44	24.39
	Medium	0	2130.00	308	10.57	7.38	13.59/12.56	0.50	30.66
		25	2009.22	306	10.15	7.08	13.43/12.46	0.48	28.59
		50	1850.06	300	9.57	6.66	13.20/12.31	0.46	25.86
		75	1799.17	294	9.38	6.52	13.12/12.26	0.45	25.00
		100	1675.53	285	8.91	6.18	12.93/12.13	0.43	22.89
	Low	0	1271.85	221	7.26	4.99	12.22/11.64	0.35	16.15
		25	1179.18	218	6.86	4.70	12.04/11.51	0.33	14.64
		50	1062.96	214	6.33	4.32	11.80/11.34	0.30	12.77
		75	925.52	205	5.67	3.85	11.50/11.12	0.27	10.62
		100	785.16	202	4.96	3.36	11.16/10.87	0.24	8.48

Air on Condition : 24°C DB / 18°C WB

Water Condition : 7°C Inlet / 12°C Outlet

09MK HS

Ducted Fan Coil Unit

Performance Data

4 Row Standard ND

Model	Speed	ESP	Air Flow	In Put Power	Cooling Capacity		Air Off Temp	Water Flow	Water Pres- sure Drop
					Total	Sensible			
		Pa	m³/h	Watts	kW	kW	°C	L/s	kPa
09MK HS 924	High	0	2874.63	459	13.32	9.43	14.15/12.96	0.64	24.57
		25	2759.97	450	12.95	9.16	14.03/12.89	0.62	23.43
		50	2614.58	438	12.48	8.81	13.88/12.79	0.60	22.00
		75	2476.14	422	12.02	8.47	13.73/12.70	0.57	20.63
		100	2331.98	405	11.53	8.11	13.56/12.59	0.55	19.21
	Medium	0	2632.55	361	12.54	8.86	13.90/12.80	0.60	22.17
		25	2537.70	348	12.23	8.63	13.80/12.74	0.58	21.24
		50	2418.32	344	11.82	8.33	13.66/12.65	0.56	20.06
		75	2286.73	328	11.37	7.99	13.51/12.55	0.54	18.76
		100	2151.90	309	10.89	7.64	13.34/12.45	0.52	17.44
	Low	0	1419.80	261	8.00	5.54	12.29/11.73	0.38	10.37
		25	1325.17	255	7.59	5.24	12.13/11.62	0.36	9.48
		50	1205.71	243	7.05	4.85	11.92/11.47	0.34	8.38
		75	1081.95	233	6.47	4.44	11.69/11.31	0.31	7.26
		100	955.59	215	5.85	4.00	11.45/11.13	0.28	6.13
09MK HS 925	High	0	3334.87	625	15.26	10.87	14.21/13.03	0.73	20.15
		25	3209.12	612	14.87	10.58	14.10/12.96	0.71	19.28
		50	3050.14	600	14.36	10.20	13.96/12.87	0.69	18.18
		75	2892.36	588	13.84	9.81	13.81/12.78	0.66	17.08
		100	2733.62	579	13.31	9.41	13.66/12.68	0.64	15.99
	Medium	0	3214.71	569	14.89	10.59	14.11/12.96	0.71	19.32
		25	3094.45	546	14.50	10.30	14.00/12.90	0.69	18.48
		50	2942.93	526	14.01	9.94	13.86/12.81	0.67	17.43
		75	2780.92	514	13.47	9.53	13.71/12.71	0.64	16.31
		100	2617.21	490	12.90	9.12	13.54/12.60	0.62	15.18
	Low	0	1860.80	324	10.06	7.02	12.67/12.02	0.48	10.01
		25	1766.46	311	9.67	6.74	12.54/11.94	0.46	9.37
		50	1646.91	296	9.16	6.38	12.38/11.82	0.44	8.58
		75	1533.55	286	8.67	6.02	12.22/11.71	0.41	7.83
		100	1418.43	277	8.16	5.65	12.05/11.59	0.39	7.07
09MK HS 926	High	0	3552.46	690	17.06	12.00	13.86/12.76	0.81	27.67
		25	3436.40	685	16.67	11.71	13.77/12.70	0.80	26.62
		50	3290.49	663	16.18	11.35	13.65/12.62	0.77	25.29
		75	3128.32	643	15.62	10.94	13.50/12.53	0.75	23.82
		100	2965.78	613	15.04	10.51	13.36/12.43	0.72	22.35
	Medium	0	3377.46	558	16.47	11.57	13.72/12.67	0.79	26.08
		25	3257.85	545	16.07	11.27	13.62/12.60	0.77	24.99
		50	3106.12	527	15.54	10.88	13.48/12.52	0.74	23.62
		75	2967.57	514	15.04	10.52	13.36/12.43	0.72	22.36
		100	2829.28	492	14.54	10.15	13.23/12.35	0.69	21.11
	Low	0	1884.72	333	10.76	7.41	12.19/11.64	0.51	12.73
		25	1786.65	324	10.33	7.10	12.07/11.55	0.49	11.88
		50	1662.47	311	10.24	6.97	11.41/11.07	0.49	11.72
		75	1540.75	298	9.20	6.29	11.74/11.32	0.44	9.80
		100	1414.43	288	8.59	5.86	11.55/11.18	0.41	8.75
09MK HS 927	High	0	4024.38	795	19.06	13.47	13.95/12.84	0.91	23.37
		25	3909.50	780	18.68	13.19	13.87/12.79	0.89	22.60
		50	3764.34	772	18.20	12.83	13.76/12.72	0.87	21.63
		75	3619.68	760	17.71	12.47	13.66/12.65	0.85	20.66
		100	3475.23	755	17.21	12.10	13.54/12.58	0.82	19.69
	Medium	0	3854.63	770	18.50	13.06	13.83/12.76	0.88	22.24
		25	3741.81	764	18.12	12.78	13.75/12.71	0.87	21.48
		50	3599.39	692	17.64	12.42	13.64/12.64	0.84	20.53
		75	3452.55	675	17.13	12.05	13.53/12.57	0.82	19.54
		100	3303.16	655	16.60	11.66	13.40/12.49	0.79	18.54
	Low	0	2085.97	648	11.82	8.17	12.24/11.70	0.56	10.53
		25	1998.64	625	11.43	7.89	12.14/11.63	0.55	9.97
		50	1888.33	610	10.94	7.54	12.01/11.54	0.52	9.27
		75	1774.50	590	10.41	7.16	11.88/11.44	0.50	8.56
		100	1656.82	575	9.86	6.77	11.73/11.34	0.47	7.82

Air on Condition : 24°C DB / 18°C WB

Water Condition : 7°C Inlet / 12°C Outlet

09MK HS

Ducted Fan Coil Unit

Performance Data

6 Row Standard ND

Model	Speed	ESP	Air Flow	In Put Power	Cooling Capacity		Air Off Temp	Water Flow	Water Pres- sure Drop
					Total	Sensible			
		Pa	m³/h	Watts	kW	kW	°C	L/s	kPa
09MK HS 920	High	0	1201.19	191	6.99	4.81	11.97/11.51	0.33	12.19
		25	1085.11	183	6.46	4.43	11.74/11.34	0.31	10.66
		50	967.18	175	5.90	4.03	11.49/11.16	0.28	9.14
		75	651.43	150	4.26	2.87	10.76/10.59	0.20	5.29
	Medium	0	1080.51	175	6.44	4.42	11.73/11.33	0.31	10.60
		25	962.55	167	5.87	4.01	11.48/11.15	0.28	9.08
		50	850.16	160	5.31	3.62	11.23/10.96	0.25	7.67
		75	587.98	138	3.90	2.62	10.61/10.47	0.19	4.57
	Low	0	772.23	148	4.91	3.33	11.05/10.82	0.23	6.72
		25	671.41	144	4.37	2.95	10.81/10.63	0.21	5.52
		50	512.45	125	3.45	2.32	10.43/10.32	0.16	3.74
		75	350.20	116	2.59	1.69	9.50/9.46	0.12	1.21
09MK HS 921	High	0	1344.75	247	8.21	5.58	11.55/11.15	0.39	20.67
		25	1307.07	239	8.03	5.45	11.48/11.10	0.38	19.90
		50	1261.88	231	7.81	5.29	11.40/11.04	0.37	18.99
		75	1161.68	216	7.31	4.94	11.22/10.90	0.35	16.98
		100	1058.76	200	6.79	4.57	11.03/10.75	0.32	14.95
	Medium	0	1314.67	241	8.07	5.48	11.50/11.11	0.39	20.06
		25	1267.66	236	7.84	5.31	11.41/11.05	0.37	19.10
		50	1209.86	228	7.55	5.11	11.31/10.97	0.36	17.94
		75	1117.27	210	7.09	4.79	11.14/10.84	0.34	16.10
		100	1024.98	197	6.61	4.45	10.97/10.70	0.32	14.30
	Low	0	739.60	123	5.03	3.35	10.38/10.24	0.24	9.03
		25	690.82	120	4.75	3.16	10.28/10.15	0.23	8.18
		50	630.39	116	4.39	2.91	10.14/10.04	0.21	7.16
		75	541.85	109	3.84	2.54	9.95/9.87	0.18	5.73
		100	451.36	104	3.25	2.14	9.76/9.71	0.16	4.35
09MK HS 922	High	0	1778.58	284	10.45	7.17	11.90/11.44	0.50	17.34
		25	1692.57	281	10.06	6.89	11.78/11.35	0.48	16.25
		50	1584.64	274	9.56	6.53	11.63/11.24	0.46	14.90
		75	1458.75	255	8.95	6.10	11.45/11.10	0.43	13.34
		100	1330.29	239	8.32	5.65	11.26/10.96	0.40	11.78
	Medium	0	1721.05	276	10.19	6.98	11.82/11.38	0.49	16.61
		25	1618.42	265	9.71	6.64	11.68/11.28	0.46	15.32
		50	1488.73	255	9.10	6.20	11.50/11.14	0.43	13.71
		75	1358.97	238	8.46	5.75	11.30/10.99	0.40	12.12
		100	1228.26	223	7.79	5.28	11.10/10.84	0.37	10.56
	Low	0	1108.29	219	7.16	4.83	10.91/10.68	0.34	9.16
		25	1028.32	213	6.73	4.53	10.77/10.58	0.32	8.25
		50	928.87	199	6.18	4.14	10.60/10.44	0.29	7.15
		75	790.91	190	5.38	3.59	10.37/10.25	0.26	5.68
		100	648.11	174	4.51	3.00	10.12/10.05	0.22	4.24
09MK HS 923	High	0	2055.67	356	12.52	8.49	11.60/11.16	0.60	28.30
		25	1979.87	350	12.16	8.24	11.51/11.10	0.58	26.93
		50	1884.25	342	11.70	7.91	11.40/11.01	0.56	25.21
		75	1782.64	337	11.20	7.56	11.27/10.92	0.53	23.40
		100	1677.44	332	10.67	7.19	11.14/10.82	0.51	21.55
	Medium	0	2023.50	293	12.37	8.38	11.56/11.14	0.59	27.72
		25	1908.75	291	11.82	7.99	11.43/11.04	0.56	25.65
		50	1757.48	285	11.07	7.47	11.24/10.90	0.53	22.96
		75	1708.33	279	10.82	7.30	11.18/10.85	0.52	22.09
		100	1586.78	270	10.20	6.86	11.02/10.73	0.49	19.98
	Low	0	1208.26	210	8.15	5.43	10.50/10.31	0.39	13.68
		25	1120.22	207	7.65	5.09	10.37/10.21	0.37	12.28
		50	1009.82	203	7.00	4.64	10.20/10.07	0.33	10.59
		75	879.23	195	6.21	4.10	10.00/9.90	0.30	8.66
		100	745.85	192	5.37	3.53	9.79/9.72	0.26	6.80

Air on Condition : 24°C DB / 18°C WB

Water Condition : 7°C Inlet / 12°C Outlet

09MK HS

Ducted Fan Coil Unit

Performance Data

6 Row Standard ND

Model	Speed	ESP	Air Flow	In Put Power	Cooling Capacity		Air Off Temp	Water Flow	Water Pres- sure Drop
		Pa	m³/h	Watts	Total	Sensible	DB/WB		
		Pa	m³/h	Watts	kW	kW	°C	L/s	kPa
09MK HS 924	High	0	2730.90	436	15.98	10.93	11.99/11.46	0.76	27.66
		25	2621.97	427	15.50	10.58	11.89/11.39	0.74	26.24
		50	2483.94	416	14.87	10.13	11.76/11.30	0.71	24.46
		75	2353.31	401	14.26	9.70	11.63/11.20	0.68	22.79
	Medium	100	2220.89	386	13.63	9.25	11.49/11.10	0.65	21.11
		0	2500.92	363	14.95	10.19	11.77/11.31	0.71	24.68
		25	2410.82	355	14.53	9.89	11.68/11.24	0.69	23.52
		50	2297.43	337	13.99	9.51	11.57/11.16	0.67	22.08
		75	2172.66	312	13.40	9.09	11.45/11.07	0.64	20.50
	Low	100	2045.81	294	12.77	8.65	11.31/10.97	0.61	18.92
		0	1348.81	248	9.08	6.06	10.50/10.33	0.43	10.67
		25	1258.91	242	8.57	5.71	10.39/10.24	0.41	9.68
		50	1145.37	231	7.90	5.25	10.24/10.12	0.38	8.46
09MK HS 925	High	75	1027.14	221	7.18	4.76	10.09/9.99	0.34	7.23
		100	903.84	203	6.41	4.24	9.93/9.85	0.31	6.00
	Medium	0	3168.13	594	18.49	12.66	12.01/11.49	0.88	25.73
		25	3048.66	581	17.96	12.28	11.91/11.42	0.86	24.50
		50	2897.65	570	17.27	11.79	11.79/11.33	0.82	22.94
		75	2747.92	559	16.58	11.29	11.66/11.24	0.79	21.42
	Low	100	2597.94	550	15.87	10.79	11.53/11.14	0.76	19.90
		0	3053.97	541	17.98	12.29	11.91/11.42	0.86	24.55
		25	2939.73	519	17.46	11.92	11.82/11.35	0.83	23.37
		50	2795.68	500	16.80	11.45	11.70/11.27	0.80	21.90
		75	2640.71	488	16.07	10.93	11.57/11.17	0.77	20.33
		100	2479.82	464	15.30	10.38	11.43/11.06	0.73	18.72
09MK HS 926	High	0	1767.76	308	11.63	7.81	10.74/10.53	0.56	11.86
		25	1678.13	295	11.14	7.46	10.65/10.46	0.53	11.03
		50	1564.59	281	10.50	7.02	10.53/10.36	0.50	10.01
		75	1457.23	272	9.88	6.59	10.41/10.27	0.47	9.06
	Medium	100	1349.53	264	9.25	6.16	10.30/10.17	0.44	8.13
		0	3374.83	655	20.40	13.84	11.69/11.22	0.97	34.54
		25	3264.58	651	19.88	13.47	11.61/11.16	0.95	33.08
		50	3125.88	630	19.22	13.01	11.51/11.09	0.92	31.24
		75	2970.93	611	18.48	12.48	11.39/11.00	0.88	29.22
	Low	100	2812.00	581	17.69	11.93	11.26/10.91	0.84	27.16
		0	3208.59	530	19.62	13.28	11.57/11.13	0.94	32.34
		25	3094.95	518	19.08	12.90	11.48/11.07	0.91	30.84
		50	2950.77	501	18.38	12.41	11.37/10.99	0.88	28.95
09MK HS 927	High	75	2818.66	488	17.73	11.95	11.27/10.91	0.85	27.24
		100	2684.80	467	17.05	11.48	11.16/10.83	0.81	25.52
	Medium	0	1790.48	316	12.23	8.13	10.37/10.20	0.58	14.63
		25	1697.32	308	11.69	7.76	10.28/10.13	0.56	13.57
		50	1579.39	295	10.99	7.28	10.16/10.03	0.52	12.25
		75	1464.23	283	10.30	6.80	10.05/9.94	0.49	10.99
	Low	100	1346.66	274	9.57	6.31	9.93/9.84	0.46	9.75
		0	3823.16	755	22.75	15.51	11.82/11.34	1.09	26.35
		25	3714.03	741	22.25	15.16	11.75/11.29	1.06	25.38
		50	3575.99	733	21.60	14.70	11.66/11.23	1.03	24.18
		75	3437.20	722	20.95	14.23	11.57/11.16	1.00	22.97
	Medium	100	3293.02	715	20.26	13.75	11.47/11.08	0.97	21.72
		0	3661.90	732	22.00	14.98	11.72/11.27	1.05	24.93
		25	3554.72	726	21.50	14.63	11.64/11.22	1.03	23.99
		50	3419.44	657	20.86	14.17	11.55/11.15	1.00	22.81
	Low	75	3280.09	641	20.20	13.70	11.46/11.08	0.96	21.61
		100	3138.98	622	19.51	13.21	11.36/11.00	0.93	20.40
		0	1981.67	616	13.38	8.93	10.47/10.31	0.64	10.98
		25	1898.71	594	12.91	8.60	10.40/10.25	0.62	10.35
		50	1793.92	580	12.30	8.18	10.31/10.17	0.59	9.56
		75	1685.86	561	11.65	7.74	10.22/10.10	0.56	8.77
		100	1574.48	546	10.98	7.28	10.12/10.02	0.52	7.96

Air on Condition : 24°C DB / 18°C WB

Water Condition : 7°C Inlet / 12°C Outlet

09MK HS

Ducted Fan Coil Unit

Performance Data

4 Row District Cooling HD

Model	Speed	ESP	Air Flow	In Put Power	Cooling Capacity		Air Off Temp	Water Flow	Water Pres- sure Drop
					Total	Sensible			
		Pa	m³/h	Watts	kW	kW	DB/WB °C	L/S	kPa
09MK HS 920	High	0	1310.15	200	5.08	3.89	15.09/13.85	0.13	11.25
		25	1178.73	190	4.73	3.61	14.82/13.69	0.13	9.99
		50	1058.77	181	4.40	3.33	14.54/13.52	0.12	8.84
		75	934.03	962	4.03	3.04	14.23/13.33	0.11	7.63
	Medium	0	1181.06	181	4.74	3.61	14.82/13.69	0.13	10.02
		25	1057.21	173	4.40	3.33	14.54/13.52	0.12	8.82
		50	947.36	164	4.07	3.07	14.27/13.35	0.11	7.76
		75	816.52	154	3.66	2.74	13.92/13.13	0.10	6.49
	Low	0	870.16	155	3.83	2.88	14.07/13.23	0.10	7.01
		25	751.24	146	3.44	2.57	13.73/13.01	0.09	5.86
		50	649.72	137	3.08	2.29	13.42/12.82	0.08	4.87
		75	463.53	123	2.61	1.84	12.11/11.75	0.07	1.78
09MK HS 921	High	0	1415.52	260	6.66	4.76	13.90/12.87	0.18	23.06
		25	1375.86	252	6.54	4.67	13.81/12.82	0.17	22.32
		50	1328.32	243	6.38	4.55	13.71/12.75	0.17	21.44
		75	1223.09	227	6.03	4.29	13.48/12.60	0.16	19.49
		100	1116.03	211	5.66	4.01	13.22/12.43	0.15	17.50
	Medium	0	1383.86	254	6.56	4.69	13.83/12.83	0.17	22.47
		25	1334.38	248	6.40	4.57	13.73/12.76	0.17	21.55
		50	1273.53	240	6.20	4.41	13.59/12.67	0.16	20.42
		75	1175.97	221	5.87	4.16	13.37/12.52	0.16	18.61
		100	1078.35	207	5.53	3.90	13.13/12.36	0.15	16.80
	Low	0	778.53	130	4.37	3.04	12.28/11.76	0.12	11.28
		25	727.18	126	4.15	2.88	12.11/11.64	0.11	10.35
		50	663.61	122	3.87	2.67	11.90/11.48	0.10	9.21
		75	570.82	115	3.44	2.36	11.57/11.24	0.09	7.56
		100	477.72	110	2.98	2.03	11.22/10.97	0.08	5.94
09MK HS 922	High	0	1872.19	299	8.30	6.03	14.33/13.20	0.22	18.53
		25	1781.66	296	8.03	5.82	14.19/13.11	0.21	17.53
		50	1668.05	288	7.69	5.55	14.01/12.99	0.20	16.27
		75	1535.56	268	7.27	5.23	13.78/12.84	0.19	14.79
		100	1400.50	252	6.82	4.89	13.52/12.67	0.18	13.28
	Medium	0	1811.63	291	8.12	5.89	14.24/13.14	0.22	17.86
		25	1703.60	279	7.80	5.64	14.07/13.03	0.21	16.66
		50	1567.00	268	7.37	5.31	13.83/12.88	0.20	15.14
		75	1429.54	250	6.92	4.96	13.58/12.71	0.18	13.61
		100	1287.62	234	6.43	4.59	13.30/12.52	0.17	12.02
	Low	0	1166.63	231	5.99	4.26	13.04/12.35	0.16	10.68
		25	1082.44	224	5.68	4.02	12.85/12.22	0.15	9.74
		50	977.81	210	5.27	3.71	12.60/12.05	0.14	8.59
		75	833.20	200	4.66	3.26	12.24/11.78	0.12	7.00
		100	685.94	184	4.00	2.78	11.84/11.50	0.11	5.41
09MK HS 923	High	0	2163.86	375	10.16	7.24	13.96/12.89	0.27	31.38
		25	2084.07	368	9.91	7.05	13.85/12.82	0.26	30.07
		50	1983.38	360	9.59	6.80	13.71/12.72	0.25	28.43
		75	1876.09	355	9.23	6.53	13.54/12.61	0.24	26.67
		100	1763.62	349	8.85	6.25	13.37/12.49	0.23	24.82
	Medium	0	2130.00	308	10.05	7.16	13.91/12.86	0.27	30.83
		25	2009.22	306	9.67	6.86	13.74/12.74	0.26	28.85
		50	1850.06	300	9.15	6.47	13.50/12.59	0.24	26.24
		75	1799.17	294	8.98	6.34	13.42/12.53	0.24	25.41
		100	1675.53	285	8.55	6.02	13.22/12.39	0.23	23.38
	Low	0	1271.85	221	7.04	4.89	12.46/11.87	0.19	16.79
		25	1179.18	218	6.66	4.61	12.27/11.72	0.18	15.30
		50	1062.96	214	6.17	4.25	12.00/11.53	0.16	13.43
		75	925.52	205	5.55	3.80	11.67/11.28	0.15	11.26
		100	785.16	202	4.88	3.32	11.30/11.00	0.13	9.08

Air on Condition : 24°C DB / 18°C WB

Water Condition : 5.5°C Inlet / 14.5°C

09MK HS

Ducted Fan Coil Unit

Performance Data

4 Row District Cooling HD

Model	Speed	ESP	Air Flow	In Put Power	Cooling Capacity		Air Off Temp	Water Flow	Water Pres- sure Drop
					Total	Sensible			
		Pa	m³/h	Watts	kW	kW	DB/WB °C	L/s	kPa
09MK HS 924	High	0	2874.63	459	12.11	8.90	14.71/13.46	0.32	16.61
		25	2759.97	450	11.79	8.65	14.59/13.39	0.31	15.88
		50	2614.58	438	11.38	8.33	14.44/13.29	0.30	14.95
		75	2476.14	422	10.97	8.01	14.29/13.20	0.29	14.06
		100	2331.98	405	10.54	7.67	14.12/13.09	0.28	13.14
	Medium	0	2632.55	361	11.43	8.37	14.46/13.31	0.30	15.07
		25	2537.70	348	11.16	8.15	14.35/13.24	0.30	14.46
		50	2418.32	344	10.80	7.88	14.22/13.16	0.29	13.69
		75	2286.73	328	10.40	7.57	14.07/13.06	0.28	12.85
		100	2151.90	309	9.98	7.24	13.90/12.95	0.26	11.98
	Low	0	1419.80	261	7.41	5.27	12.85/12.25	0.20	7.27
		25	1325.17	255	7.03	4.99	12.69/12.14	0.19	6.66
		50	1205.71	243	6.54	4.62	12.49/12.00	0.17	5.90
		75	1081.95	233	6.00	4.23	12.27/11.85	0.16	5.11
		100	955.59	215	5.38	3.79	12.09/11.74	0.14	4.26
09MK HS 925	High	0	3334.87	625	14.07	10.34	14.69/13.45	0.37	16.61
		25	3209.12	612	13.72	10.07	14.58/13.38	0.36	15.92
		50	3050.14	600	13.27	9.71	14.44/13.29	0.35	15.05
		75	2892.36	588	12.81	9.36	14.29/13.20	0.34	14.18
		100	2733.62	579	12.34	8.98	14.13/13.10	0.33	13.30
	Medium	0	3214.71	569	13.74	10.08	14.59/13.39	0.36	15.95
		25	3094.45	546	13.40	9.81	14.48/13.32	0.36	15.29
		50	2942.93	526	12.96	9.47	14.34/13.23	0.34	14.46
		75	2780.92	514	12.48	9.10	14.18/13.13	0.33	13.57
		100	2617.21	490	11.98	8.71	14.01/13.03	0.32	12.66
	Low	0	1860.80	324	9.42	6.74	13.13/12.44	0.25	8.46
		25	1766.46	311	9.07	6.47	13.00/12.36	0.24	7.94
		50	1646.91	296	8.60	6.13	12.83/12.24	0.23	7.28
		75	1533.55	286	8.15	5.79	12.67/12.13	0.22	6.65
		100	1418.43	277	7.67	5.43	12.50/12.01	0.20	6.02
09MK HS 926	High	0	3552.46	690	15.93	11.50	14.28/13.14	0.42	23.37
		25	3436.40	685	15.59	11.23	14.19/13.08	0.41	22.52
		50	3290.49	663	15.15	10.89	14.06/13.00	0.40	21.45
		75	3128.32	643	14.64	10.51	13.92/12.90	0.39	20.26
		100	2965.78	613	14.13	10.11	13.76/12.80	0.37	19.07
	Medium	0	3377.46	558	15.41	11.10	14.14/13.04	0.41	22.09
		25	3257.85	545	15.05	10.82	14.03/12.98	0.40	21.21
		50	3106.12	527	14.57	10.45	13.90/12.89	0.39	20.10
		75	2967.57	514	14.13	10.12	13.77/12.80	0.37	19.08
		100	2829.28	492	13.68	9.77	13.63/12.72	0.36	18.06
	Low	0	1884.72	333	10.26	7.19	12.55/11.97	0.27	11.12
		25	1786.65	324	9.86	6.89	12.42/11.88	0.26	10.41
		50	1662.47	311	9.34	6.51	12.24/11.76	0.25	9.51
		75	1540.75	298	8.82	6.12	12.07/11.63	0.23	8.64
		100	1414.43	288	8.25	5.71	11.88/11.49	0.22	7.73
09MK HS 927	High	0	4024.38	795	17.94	12.98	14.32/13.17	0.48	22.54
		25	3909.50	780	17.61	12.72	14.24/13.11	0.47	21.83
		50	3764.34	772	17.17	12.38	14.13/13.05	0.46	20.93
		75	3619.68	760	16.73	12.04	14.01/12.97	0.44	20.03
		100	3475.23	755	16.28	11.69	13.90/12.90	0.43	19.12
	Medium	0	3854.63	770	17.44	12.59	14.19/13.09	0.46	21.49
		25	3741.81	764	17.10	12.33	14.11/13.03	0.45	20.79
		50	3599.39	692	16.67	11.99	14.00/12.96	0.44	19.90
		75	3452.55	675	16.21	11.64	13.88/12.89	0.43	18.98
		100	3303.16	655	15.73	11.27	13.76/12.80	0.42	18.05
	Low	0	2085.97	648	11.36	7.97	12.54/11.97	0.30	10.44
		25	1998.64	625	11.00	7.70	12.43/11.90	0.29	9.90
		50	1888.33	610	10.54	7.36	12.30/11.80	0.28	9.22
		75	1774.50	590	10.05	7.00	12.15/11.70	0.27	8.53
		100	1656.82	575	9.54	6.62	12.00/11.59	0.25	7.81

Air on Condition : 24°C DB / 18°C WB

Water Condition : 5.5°C Inlet / 14.5°C

09MK HS

Ducted Fan Coil Unit

Performance Data

6 Row District Cooling HD

Model	Speed	ESP	Air Flow	In Put Power	Cooling Capacity		Air Off Temp	Water Flow	Water Pressure Drop
					Total	Sensible			
		Pa	m³/h	Watts	kW	kW	°C	L/s	kPa
09MK HS 920	High	0	1201.25	191	6.13	4.44	12.91/12.39	0.16	10.72
		25	1083.26	183	5.68	4.09	12.68/12.22	0.15	9.42
		50	967.50	175	5.21	3.73	12.43/12.04	0.14	8.16
		75	652.27	150	3.80	2.67	11.70/11.50	0.10	4.81
	Medium	0	1080.51	175	5.67	4.08	12.67/12.22	0.15	9.39
		25	962.55	167	5.19	3.71	12.42/12.03	0.14	8.11
		50	850.16	160	4.71	3.35	12.16/11.85	0.13	6.90
		75	587.98	138	4.83	3.05	8.45/8.32	0.13	3.89
	Low	0	772.23	148	4.37	3.09	11.98/11.71	0.12	6.07
		25	671.41	144	3.89	2.74	11.75/11.53	0.10	5.01
		50	512.45	125	3.38	2.28	10.64/10.52	0.09	1.96
		75	350.20	116	2.49	1.65	9.87/9.83	0.07	1.44
09MK HS 921	High	0	1344.75	247	8.07	5.52	11.69/11.28	0.21	22.06
		25	1307.07	239	7.90	5.39	11.61/11.22	0.21	21.28
		50	1261.88	231	7.70	5.24	11.52/11.15	0.20	20.36
		75	1161.68	216	7.23	4.91	11.32/10.99	0.19	18.31
		100	1058.76	200	6.74	4.55	11.10/10.82	0.18	16.24
	Medium	0	1314.67	241	7.94	5.42	11.63/11.23	0.21	21.44
		25	1267.66	236	7.72	5.26	11.54/11.16	0.20	20.47
		50	1209.86	228	7.46	5.07	11.42/11.07	0.20	19.29
		75	1117.27	210	7.02	4.75	11.22/10.92	0.19	17.41
		100	1024.98	197	6.57	4.43	11.02/10.75	0.17	15.56
	Low	0	739.60	123	5.06	3.37	10.33/10.19	0.13	10.04
		25	690.82	120	4.79	3.17	10.21/10.08	0.13	9.13
		50	630.39	116	4.43	2.93	10.05/9.94	0.12	8.03
		75	541.85	109	3.89	2.56	9.82/9.74	0.10	6.47
		100	451.36	104	3.51	2.26	8.97/8.93	0.09	2.62
09MK HS 922	High	0	1778.58	284	9.86	6.91	12.34/11.85	0.26	12.55
		25	1692.57	281	9.51	6.64	12.22/11.76	0.25	11.80
		50	1584.64	274	9.05	6.30	12.06/11.64	0.24	10.86
		75	1458.75	255	8.50	5.90	11.86/11.49	0.23	9.77
		100	1330.29	239	7.92	5.47	11.66/11.34	0.21	8.67
	Medium	0	1721.05	276	9.63	6.73	12.26/11.79	0.26	12.05
		25	1618.42	265	9.20	6.41	12.11/11.68	0.24	11.15
		50	1488.73	255	8.63	6.00	11.91/11.53	0.23	10.03
		75	1358.97	238	8.05	5.57	11.70/11.37	0.21	8.92
		100	1228.26	223	7.44	5.12	11.49/11.21	0.20	7.81
	Low	0	1108.29	219	6.85	4.69	11.29/11.05	0.18	6.81
		25	1028.32	213	6.44	4.40	11.15/10.94	0.17	6.15
		50	928.87	199	5.92	4.03	10.98/10.81	0.16	5.34
		75	790.91	190	7.35	4.52	6.86/6.78	0.19	4.24
		100	648.11	174	4.74	3.10	9.63/9.55	0.13	1.93
09MK HS 923	High	0	2055.67	356	12.04	8.28	11.91/11.46	0.32	21.11
		25	1979.87	350	11.71	8.04	11.81/11.38	0.31	20.14
		50	1884.25	342	11.29	7.73	11.68/11.29	0.30	18.93
		75	1782.64	337	10.83	7.40	11.54/11.18	0.29	17.65
		100	1677.44	332	10.35	7.04	11.39/11.06	0.27	16.33
	Medium	0	2023.50	293	11.90	8.18	11.87/11.43	0.32	20.70
		25	1908.75	291	11.40	7.81	11.72/11.31	0.30	19.24
		50	1757.48	285	10.72	7.31	11.51/11.15	0.28	17.33
		75	1708.33	279	10.49	7.15	11.44/11.10	0.28	16.71
		100	1586.78	270	9.92	6.73	11.26/10.96	0.26	15.20
	Low	0	1208.26	210	8.00	5.37	10.66/10.48	0.21	10.60
		25	1120.22	207	7.53	5.03	10.51/10.35	0.20	9.57
		50	1009.82	203	6.91	4.60	10.32/10.19	0.18	8.29
		75	879.23	195	6.15	4.07	10.09/9.99	0.16	6.82
		100	745.85	192	7.21	4.41	6.26/6.21	0.19	4.73

Air on Condition : 24°C DB / 18°C WB

Water Condition : 5.5°C Inlet / 14.5°C

09MK HS

Ducted Fan Coil Unit

Performance Data

6 Row District Cooling HD

Model	Speed	ESP	Air Flow	In Put Power	Cooling Capacity		Air Off Temp	Water Flow	Water Pres- sure Drop
		Pa	m³/h	Watts	Total	Sensible	DB/WB		
					kW	kW	°C		
09MK HS 924	High	0	2730.90	436	15.44	10.69	12.25/11.71	0.41	24.85
		25	2621.97	427	15.00	10.36	12.14/11.63	0.40	23.65
		50	2483.94	416	14.42	9.93	12.00/11.52	0.38	22.13
		75	2353.31	401	13.86	9.52	11.86/11.42	0.37	20.69
		100	2220.89	386	13.28	9.09	11.71/11.30	0.35	19.24
	Medium	0	2500.92	343	14.49	9.98	12.02/11.54	0.38	22.31
		25	2410.82	331	14.11	9.70	11.92/11.47	0.37	21.32
		50	2297.43	327	13.62	9.34	11.79/11.37	0.36	20.08
		75	2172.66	312	13.06	8.94	11.65/11.26	0.35	18.72
		100	2045.81	294	12.49	8.52	11.50/11.15	0.33	17.34
	Low	0	1348.81	248	9.01	6.03	10.57/10.40	0.24	10.03
		25	1258.91	242	8.52	5.69	10.44/10.29	0.23	9.13
		50	1145.37	231	7.87	5.24	10.27/10.15	0.21	8.01
		75	1027.14	221	7.18	4.76	10.09/9.99	0.19	6.87
		100	903.84	203	6.42	4.24	9.92/9.84	0.17	5.72
09MK HS 925	High	0	3168.13	594	18.02	12.45	12.20/11.67	0.48	26.43
		25	3048.66	581	17.53	12.08	12.10/11.59	0.46	25.22
		50	2897.65	570	16.89	11.62	11.96/11.49	0.45	23.69
		75	2747.92	559	16.25	11.15	11.82/11.39	0.43	22.18
		100	2597.94	550	15.59	10.66	11.68/11.28	0.41	20.68
	Medium	0	3053.97	541	17.55	12.10	12.10/11.60	0.47	25.27
		25	2939.73	519	17.07	11.75	12.00/11.52	0.45	24.11
		50	2795.68	500	16.46	11.30	11.87/11.42	0.44	22.66
		75	2640.71	488	15.78	10.80	11.72/11.31	0.42	21.11
		100	2479.82	464	15.06	10.28	11.56/11.19	0.40	19.51
	Low	0	1767.76	308	11.60	7.79	10.77/10.56	0.31	12.58
		25	1678.13	295	11.13	7.46	10.66/10.47	0.30	11.74
		50	1564.59	281	10.52	7.03	10.52/10.35	0.28	10.68
		75	1457.23	272	9.92	6.61	10.38/10.23	0.26	9.70
		100	1349.53	264	9.31	6.18	10.24/10.11	0.25	8.73
09MK HS 926	High	0	3374.83	655	20.08	13.70	11.81/11.34	0.53	36.24
		25	3264.58	651	19.60	13.35	11.72/11.27	0.52	34.78
		50	3125.88	630	18.99	12.90	11.61/11.18	0.50	32.95
		75	2970.93	611	18.29	12.4	11.47/11.08	0.49	30.91
		100	2812.00	581	17.56	11.87	11.33/10.97	0.47	28.84
	Medium	0	3208.59	530	19.36	13.17	11.68/11.24	0.51	34.04
		25	3094.95	518	18.85	12.80	11.58/11.16	0.50	32.54
		50	2950.77	501	18.20	12.33	11.45/11.06	0.48	30.65
		75	2818.66	488	17.59	11.89	11.34/10.97	0.47	28.93
		100	2684.80	467	16.96	11.44	11.21/10.87	0.45	27.19
	Low	0	1790.48	316	12.37	8.19	10.27/10.10	0.33	15.97
		25	1697.32	308	11.85	7.83	10.16/10.01	0.31	14.85
		50	1579.39	295	11.17	7.36	10.01/9.89	0.30	13.46
		75	1464.23	283	10.49	6.89	9.87/9.76	0.28	12.13
		100	1346.66	274	9.78	6.41	9.72/9.63	0.26	10.79
09MK HS 927	High	0	3823.16	755	22.27	15.30	11.98/11.50	0.59	26.87
		25	3714.03	741	21.80	14.96	11.91/11.44	0.58	25.93
		50	3575.99	733	21.21	14.52	11.81/11.37	0.56	24.75
		75	3437.20	722	20.60	14.08	11.70/11.29	0.55	23.56
		100	3293.02	715	19.96	13.61	11.59/11.20	0.53	22.33
	Medium	0	3661.90	732	21.58	14.80	11.87/11.41	0.57	25.48
		25	3554.72	726	21.12	14.46	11.79/11.35	0.56	24.56
		50	3419.44	657	20.52	14.02	11.69/11.28	0.54	23.41
		75	3280.09	641	19.90	13.57	11.58/11.19	0.53	22.22
		100	3138.98	622	19.25	13.10	11.47/11.11	0.51	21.02
	Low	0	1981.67	616	13.45	8.96	10.43/10.27	0.36	11.53
		25	1898.71	594	12.98	8.64	10.35/10.19	0.34	10.89
		50	1793.92	580	12.39	8.22	10.24/10.10	0.33	10.08
		75	1685.86	561	11.77	7.79	10.13/10.01	0.31	9.25
		100	1574.48	546	11.11	7.34	10.01/9.91	0.29	8.41

Air on Condition : 24°C DB / 18°C WB

Water Condition : 5.5°C Inlet / 14.5°C

09MK HS

Ducted Fan Coil Unit

Sound Pressure Levels Data

Model	Speed	Octave band Sound Pressure Level dB							Overall Sound Pressure dB(A)
		125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	8KHz	
09MK920 HS	High	39.3	44.1	43.9	45.5	43.9	43.5	31.5	50
	Medium	38.8	42.2	42.1	43.8	42.1	41.8	29.8	48
	Low	36.2	40.0	39.6	41.3	40.1	39.2	29.0	46
09MK921 HS	High	40.7	47.2	46.9	48.4	46.7	44.5	34.4	53
	Medium	39.0	45.3	45.0	46.4	44.8	42.7	33.0	51
	Low	36.5	42.4	42.2	43.5	42.0	40.1	30.9	48
09MK922 HS	High	41.0	48.5	48.3	49.9	47.8	44.0	36.6	54
	Medium	39.3	46.5	46.3	47.9	45.9	42.2	35.1	52
	Low	36.8	43.6	43.4	44.8	43.0	39.5	32.9	49
09MK923 HS	High	41.6	47.9	46.8	49.2	47.9	44.0	37.6	53
	Medium	39.9	46.0	44.9	47.2	46.0	42.2	36.1	51
	Low	37.3	43.0	42.1	44.2	43.0	39.5	33.8	49
09MK924 HS	High	43.5	49.8	48.4	50.9	49.2	46.4	39.9	55
	Medium	41.7	47.8	46.4	48.8	47.2	44.5	38.3	53
	Low	39.0	44.7	43.5	45.7	44.2	41.7	35.9	50
09MK925 HS	High	41.0	45.5	47.5	48.4	46.7	40.1	31.0	52
	Medium	38.4	43.8	45.7	46.5	44.9	38.5	29.8	50
	Low	36.1	41.2	43.0	43.8	42.2	36.2	28.0	48
09MK926 HS	High	43.3	46.9	49.1	49.8	47.4	41.0	32.8	53
	Medium	41.6	45.1	47.3	47.9	45.6	39.4	31.6	51
	Low	39.2	42.5	44.6	45.1	43.0	37.1	29.7	49
09MK927 HS	High	48.5	51.6	51.2	53.8	51.6	47.9	41.3	57
	Medium	46.5	49.5	49.1	51.6	49.5	46.0	39.6	55
	Low	43.5	46.4	46.0	48.3	46.4	43.1	37.1	52

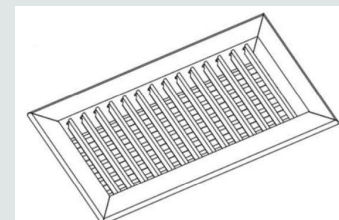
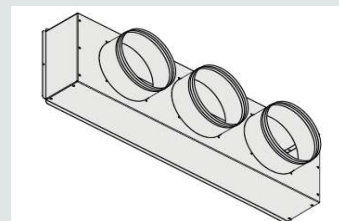
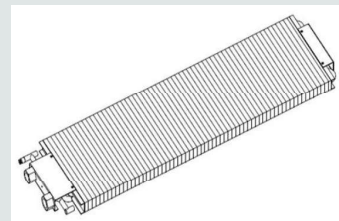
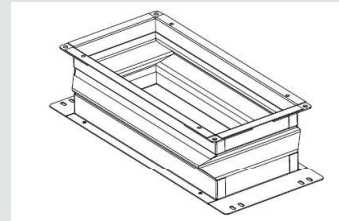
*Sound pressure level at 1 meter distance ESP 50Pa.

09MK HS

Ducted Fan Coil

Optional Accessories

- ⇒ Double Skin casing.
- ⇒ Pre-painted casing.
- ⇒ Direct expansion cooling Coil.
- ⇒ 1 Row heating coil.
- ⇒ Flexible connector.
- ⇒ Thermostats.
- ⇒ Electronically commutated Motor.
- ⇒ Three Way / Two Way Values
- ⇒ Extended Drain Pan.
- ⇒ Stainless Steel Drain pan.
- ⇒ Supply and Return Grills for Exposed version.
- ⇒ Air Intake Plenum with Spigot.
- ⇒ Supply Air Plenum with Spigot.
- ⇒ Condensate Pump.
- ⇒ Speed Control

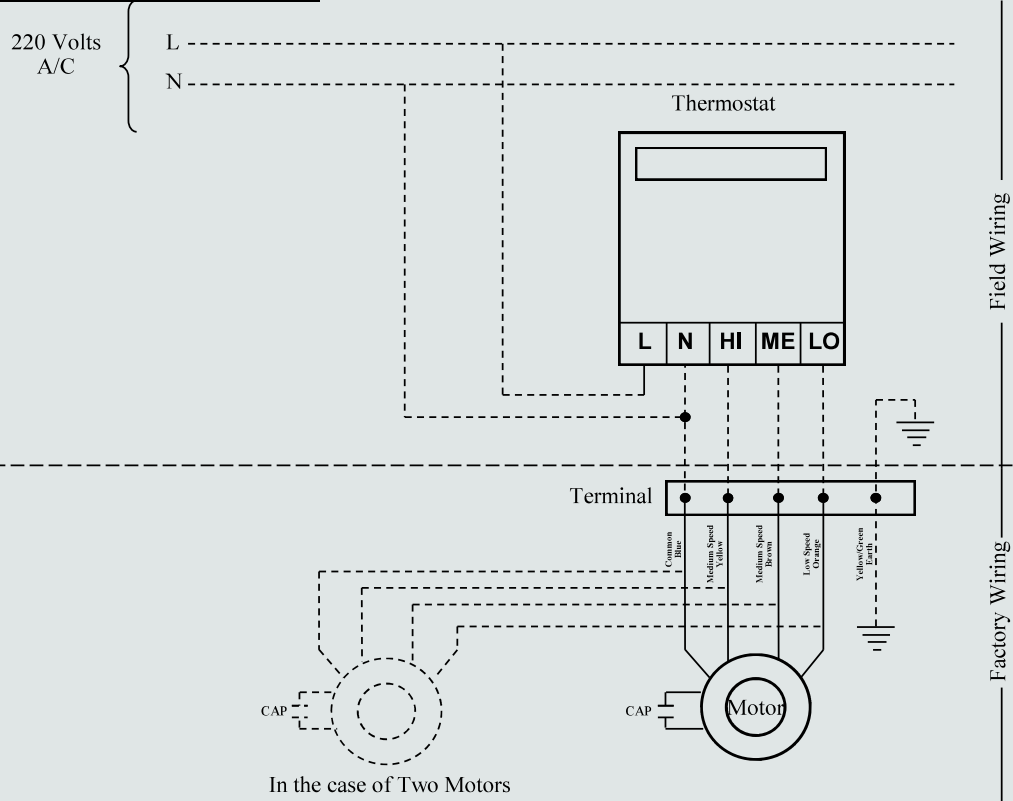


09MK HS

Ducted Fan Coil Unit

Wiring Diagram

Cooling Only Three Speed Wiring



Cooling & Electrical Heaters Three Speed Wiring

